



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6DS-L40-840-DIM-UNV-RN-OF-WH_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM BALLABS TEST NO. 20357.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 03/12/2021

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO

[LUMINAIRE] LED 6"SHORT HEATSINK 6"SQ CAST HOUSING DOWNLIGHT

[MORE] ACRYLIC NARROW TIR OPTIC & 6"CAST WHITE REGRESS TRIM

[MORE] w/SOLITE LENS

[LUMCAT] 6DS-L40-840-DIM-UNV-RN-OF-WH

[LAMPCAT] BXRE-35E2000

[_SEARCH_SOURCETYPE] LED

[_SEARCH_APPLICATION] Indoor, Classroom, Commercial, Industrial, Office, Direct, Downlight

[_SEARCH_MOUNTING] Recessed

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3742
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	90
Total Luminaire Watts	41.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.46
Spacing Criterion (90-270)	0.44
Spacing Criterion (Diagonal)	0.48
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.50 ft
Luminous Width (90-270)	0.50 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	8456	9922	7667
55	4448	5421	4309
65	2830	3207	2830
75	924	1232	1232
85	915	0	1830

IES INDOOR REPORT
 PHOTOMETRIC FILENAME : 6DS-L40-840-DIM-UNV-RN-OF-WH_.IES

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	13010.819	13010.819	13010.819	13010.819	13010.819
5	11858.008	11820.940	11820.940	11683.789	11650.428
10	8896.286	8742.455	8748.015	8649.785	8610.864
15	5398.934	5495.310	5430.441	5130.192	5085.710
20	2924.654	2991.376	2848.665	2657.766	2563.242
25	1579.091	1506.808	1480.861	1336.296	1282.548
30	804.373	806.226	752.478	672.782	620.887
35	394.773	437.401	402.186	372.532	328.051
40	227.967	239.088	246.501	213.140	189.046
45	139.004	148.271	163.099	135.298	126.031
50	92.670	96.376	113.057	96.376	88.963
55	59.309	61.162	72.282	63.015	57.455
60	44.481	46.335	46.335	44.481	42.628
65	27.801	27.801	31.508	27.801	27.801
70	14.827	14.827	14.827	12.974	14.827
75	5.560	7.414	7.414	7.414	7.414
80	5.560	5.560	3.707	5.560	3.707
85	1.853	1.853	0.000	1.853	3.707
90	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 6DS-L40-840-DIM-UNV-RN-OF-WH_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2533.12	N.A.	67.70
0-30	3253.99	N.A.	86.90
0-40	3523.78	N.A.	94.20
0-60	3702.46	N.A.	98.90
0-80	3740.19	N.A.	99.90
0-90	3742.4	N.A.	100.00
10-90	2713.04	N.A.	72.50
20-40	990.66	N.A.	26.50
20-50	1108.76	N.A.	29.60
40-70	207.56	N.A.	5.50
60-80	37.73	N.A.	1.00
70-80	8.86	N.A.	0.20
80-90	2.21	N.A.	0.10
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	3742.4	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1029.36
10-20	1503.76
20-30	720.87
30-40	269.79
40-50	118.10
50-60	60.58
60-70	28.88
70-80	8.86
80-90	2.21
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 6DS-L40-840-DIM-UNV-RN-OF-WH_.IES

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95
2	110	106	102	100	108	104	101	98	101	98	96	98	96	94	95	94	92	91
3	106	100	96	93	104	99	95	92	97	93	91	94	92	89	92	90	88	87
4	102	96	91	88	100	94	90	87	92	89	86	91	88	85	89	86	84	83
5	98	91	87	83	97	90	86	83	89	85	82	87	84	81	86	83	81	79
6	95	87	83	79	93	87	82	79	85	81	78	84	81	78	83	80	77	76
7	91	84	79	76	90	83	79	76	82	78	75	81	77	75	80	77	74	73
8	88	81	76	73	87	80	76	73	79	75	72	78	75	72	77	74	72	71
9	85	78	73	70	85	77	73	70	77	72	70	76	72	69	75	72	69	68
10	83	75	71	67	82	75	70	67	74	70	67	73	70	67	73	69	67	66

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 6DS-L40-840-DIM-UNV-RN-OF-WH_.IES

UGR TABLE - CORRECTED

Reflectances

Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size UGR Viewed Crosswise

X=2H	Y=2H	9.6	10.5	9.9	10.8	11.1	UGR Viewed Endwise			
	3H	10.1	10.9	10.5	11.3	11.6	9.5	10.5	9.9	10.8
	4H	10.1	10.9	10.5	11.2	11.6	10.0	10.8	10.4	11.2
	6H	10.1	10.8	10.6	11.2	11.6	10.1	10.8	10.5	11.2
	8H	10.1	10.8	10.6	11.2	11.6	10.0	10.8	10.5	11.1
	12H	10.1	10.8	10.6	11.1	11.6	10.1	10.7	10.5	11.1

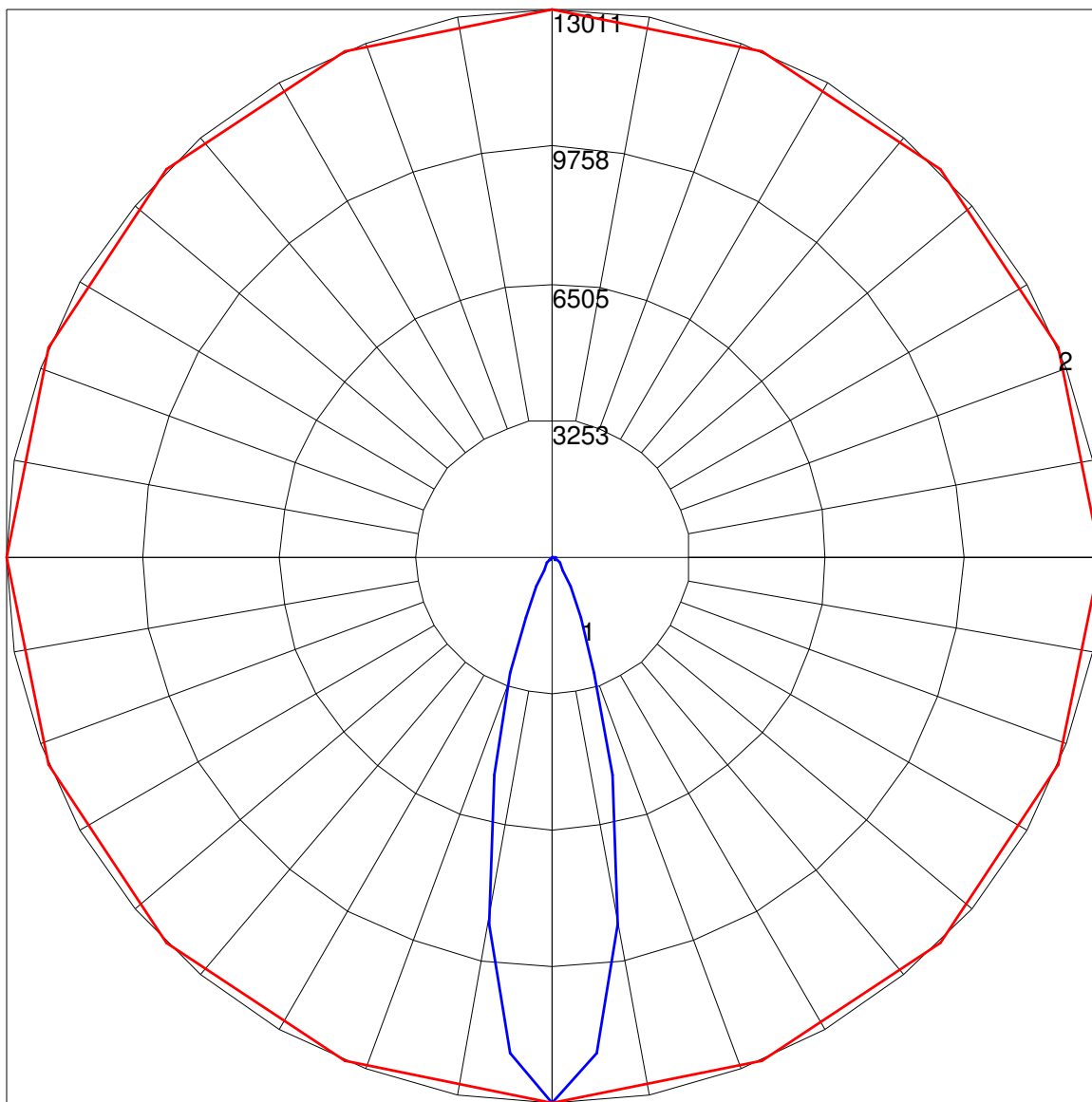
4H	2H	9.8	10.6	10.2	10.9	11.3	9.8	10.5	10.2	10.9
	3H	10.4	11.0	10.8	11.4	11.9	10.3	10.9	10.7	11.3
	4H	10.5	11.0	10.9	11.4	11.9	10.4	10.9	10.8	11.4
	6H	10.5	11.0	11.0	11.5	12.0	10.4	10.9	10.9	11.4
	8H	10.6	11.0	11.0	11.5	12.0	10.5	10.9	10.9	11.4
	12H	10.6	11.0	11.1	11.4	11.9	10.5	10.9	11.0	11.4

8H	4H	10.4	10.8	10.8	11.3	11.8	10.3	10.8	10.8	11.2
	6H	10.5	10.9	11.0	11.4	11.9	10.4	10.8	10.9	11.3
	8H	10.6	10.9	11.1	11.4	11.9	10.5	10.8	11.0	11.3
	12H	10.6	10.9	11.1	11.4	12.0	10.6	10.9	11.1	11.4

12H	4H	10.3	10.7	10.8	11.2	11.7	10.3	10.7	10.8	11.1
	6H	10.5	10.8	11.0	11.3	11.8	10.4	10.7	10.9	11.2
	8H	10.6	10.8	11.1	11.3	11.9	10.5	10.7	11.0	11.2

Maximum UGR = 12.0

POLAR GRAPH



Maximum Candela = 13010.819 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)